

Appl. No.: 09/522,724
Amdt. dated January 15, 2004
Reply to final Office action of November 18, 2003

Patent
Docket No.: 247/212 US
7015272001

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A stent graft, comprising:
a tubular prosthetic graft comprising an outer surface;
a support structure expandable between a contracted condition for facilitating introduction into a blood vessel, and an enlarged condition for securing the graft across a weakened region of the blood vessel; and
a biosensor attached to at least one of the graft and the expandable support structure, the biosensor comprising a pressure sensor having at least a portion exposed to a region external to the stent graft to sense pressure beyond the outer surface of the graft within the weakened region of the blood vessel when the graft is secured within the blood vessel.
2. (Previously Presented) The stent graft of claim 1, wherein the biosensor is directly attached to an outer surface of the graft such that the pressure sensor is exposed outside the graft.
3. (Original) The stent graft of claim 2, wherein the biosensor is attached to the graft by sutures or an adhesive.
4. (Original) The stent graft of claim 1, wherein the biosensor is directly attached to struts comprising the support structure.

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5. (Original) The stent graft of claim 1, wherein the support structure comprises a self-expanding stent.

6. (Original) The stent graft of claim 1, wherein the support structure comprises a balloon-expandable stent.

7-20 (Canceled)

21. (Previously Presented) The stent graft of claim 1, wherein the weakened region of the blood vessel comprises an aneurysmal sac, and the biosensor is configured for sensing a pressure within the aneurysmal sac when the graft is secured within the blood vessel.

22-24. (Canceled)

25. (Previously Presented) The apparatus of claim 4, wherein the support structure is attached to an inner surface of the graft, and wherein the biosensor is mounted in a hole through the graft such that the pressure sensor is exposed outside the graft.

26. (Canceled)

27. (New) The apparatus of claim 1, where in the biosensor comprises means for converting acoustic energy received from an externally originated signal into a current supply for powering one or more sensors embedded in the biosensor.